



# Lake Salvador Shore Protection Demonstration (BA-15)

## Project Status

**Approved Date:** 1993      **Project Area:** N/A  
**Approved Funds:** \$2.80 M      **Total Est. Cost:** \$2.80 M  
**Net Benefit After 20 Years:** N/A  
**Status:** Completed June 1998  
**Project Type:** Demonstration: Shoreline Protection  
**PPL #:** 3

## Location

The project is located on the southwest end of Lake Salvador near Des Allemands in St. Charles Parish, Louisiana. It encompasses approximately 1,200 acres.

## Problems

The Lake Salvador area has experienced high rates of land loss caused by a documented shoreline erosion rate (1953-83) that averaged 13 feet per year. This chronic erosion has breached the lake shoreline in several locations, exposing fragile, highly organic marsh substrates to increased wave and tidal energy.

## Restoration Strategy

Phase 1 of the project tested four types of shoreline protection structures along a section of the northern lakeshore to determine their effectiveness in reducing shoreline erosion.

To the south, Phase 2 constructed a 9,000 foot rock shoreline stabilization structure along a section of the western lakeshore to protect the shoreline and adjacent marsh from wave-induced erosion.

## Progress to Date

Monitoring of the Phase 1 area indicated that none of the tested designs showed a reduction in shoreline erosion rates; however, the demonstration was helpful in determining the relative stability of the tested structures and therefore their possible use (or application) for shorelines that cannot be protected with rock.

The phase 2 structure (rock) has successfully reduced the shoreline erosion rate. Monitoring has indicated not only a halt in erosion, but a shoreline gain of 1.8 feet per year. This project is on Priority Project List 3.



Installation of an erosion control structure during Phase 1 of the Lake Salvador restoration project.



Phase 2 of the Lake Salvador restoration project. The rock structure shown was installed to help stabilize the shoreline, allow sediment trapping, and promote marsh development.

For more project information, please contact:



**Federal Sponsor:**  
National Marine Fisheries Service  
Baton Rouge, LA  
(225) 389-0508



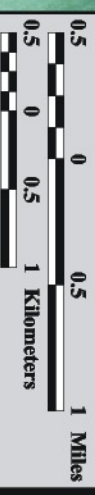
**Local Sponsor:**  
Coastal Protection and Restoration Authority  
Baton Rouge, LA  
(225) 342-4736





# Lake Salvador Shore Protection Demonstration (BA-15)

- Shoreline Protection
- Marsh Creation Area
- Project Boundary



Map Produced By:  
U.S. Department of the Interior  
U.S. Geological Survey  
National Wetlands Research Center  
Coastal Restoration Field Station

Background Imagery:  
1998 Digital Orthophoto Quarter Quadrangle

Map Date: June 10, 2002  
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